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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 September -30 September 1958	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5037	PRIORITY CLASS II	PRIM. RSPN. FES	PROJECT ENGINEER <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
PROJECT TITLE <u>Technical Bulletins</u>			
PROJECT REQUIREMENT To keep the field supplied with current technical information pertinent to general operation.			
PROJECT DESCRIPTION Scan technical literature to determine and select items for field distribution, determine distribution category, reproduce required number of copies, prepare cover letter, arrange approval and coordination, and forward to appropriate areas.			
APPROVAL DATE	APPROVED AJW /S/ JJK /S/	STARTING DATE 2 February 1956	COMPLETION DATE
<p>Technical Bulletin No. 22, "Methods and Materials for Checking Motorola VFC PA-7705 Transmitter and PA-7706 Receiver Tuned Circuits" has been checked out by the INB Branch and minor changes are being made before issuance.</p> <p>The Sloping Vee Antenna Bulletin is almost completed now. Without any further delays it should be issued next month.</p> <p>The following Technical Bulletin was issued during this reporting period. Technical Bulletin No. 26, "Voltage and Resistance Measurements for Vacuum Tubes V001 and V002 in Radio Receivers 5LJ-2, 3, and 4.</p>			

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<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5058	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Standardizing of Morse Code Perforators			
PROJECT REQUIREMENT Select a commercially available perforator which best suits the requirements of Agency installations.			
PROJECT DESCRIPTION Canvass the market and evaluate Morse Perforators to determine which is the most reliable, easiest to maintain, cheapest to maintain, etc. Recommend this model for standardization.			
APPROVAL DATE July 1958	APPROVED [REDACTED]	TARTING DATE July 1958	COMPLETION DATE
Nothing was accomplished on this project due to the absence of the project engineer.			

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ORIGINATOR(S) OC-P		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input checked="" type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5060	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER 25X1
PROJECT TITLE Strategic Reserve Program			
PROJECT REQUIREMENT To provide readily available transportable type package radio stations at convenient locations throughout the world for immediate installation and operational use in the event of an emergency.			
PROJECT DESCRIPTION To provide bills of materials for 2, 5, 10, 13, 15, and 20 position transportable type package radio stations with suggested floor plan layouts and standard wiring diagrams to provide efficient equipment utilization.			
APPROVAL DATE September 1953	APPROVED WAB /s/ JJK /s/	STARTING DATE September 1953	COMPLETION DATE
<p>This project is suspended pending receipt of the OC-P staff study and revised requirements.</p>			

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ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5085	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER 25X1
PROJECT TITLE Communications Systems Planning for New Headquarters Building			
PROJECT REQUIREMENT To determine the types of Communications systems, and the quantities of equipment that will be required for installation in the new Headquarters Building to meet Agency communications requirements.			
PROJECT DESCRIPTION To investigate and compile information on new communications systems and equipment. To meet regularly with representatives of the Message Center Staff, Operations, Engineering, and Security Divisions, and the OC member of the New Building Planning Staff to discuss communications requirements for the new building. To prepare a list of the equipment that will be required and suggested floor plans and equipment layouts defining spare requirements.			
APPROVAL DATE January 1957	APPROVED WAB /s/ JJK /s/	STARTING DATE January 1957	COMPLETION DATE
<p>Drawings are being prepared covering the antenna requirements for the new Headquarters building. The antenna requirements were established as a result of a memorandum received from OC-O+T which outlined specific communications requirements.</p> <p>On 19 September project engineers met with representatives from NSA concerning the installation of a KY-11 Ciphony system which is being considered for the new building - a memorandum outlining space, power, air conditioning and other requirements was prepared. A copy of this memorandum was forwarded to the OC representative of the New Building Planning Staff.</p>			

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ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED				
PROJECT NUMBER E-5038	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER 25X1	
PROJECT TITLE Electronic Motor Stop				
PROJECT REQUIREMENT Provide semi-automatic motor control, responsive to the reception of a forty-five second steady state signal for stopping the motors. The combined opening and closing of the signal line shall place the motors in operation.				
PROJECT DESCRIPTION Modify the Electronic Motor Stop drawing WE-20 so that it is also receptive to a steady state open circuit. A schematic drawing will be submitted to an outside contractor for a cost estimate on 30 units. Twelve units will go to EUCA as per requisition #137-035-57. The balance of units will be placed in warehouse stock.				
APPROVAL DATE 13 January 1957	APPROVED WAB /s/ JJK /s/	STARTING DATE 21 January 1957	COMPLETION DATE September 1958	
All units have been completed and delivered to the warehouse for stock. 39 units have been shipped to EUCA, leaving a warehouse balance of 21. This project is now completed.				

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ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5103	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED] 25X1
PROJECT TITLE Multiplex System for Base Station to Sub-Base Stations Communications			
PROJECT REQUIREMENT To provide a system of communications for base to sub-base operation to meet expanding communication commitments without extensive plant expansion.			
PROJECT DESCRIPTION Investigate and compile a report on the practicability of utilizing multiplex equipment on staff circuits, formulate systems where utilization is practical and make comparison costs with systems currently in use where expansion is contemplated or in areas where expanding communication commitments to staff circuits could justify multiplex communications.			
APPROVAL DATE May 1957	APPROV [REDACTED]	STARTING DATE May 1957	COMPLETION DATE
<p>25X1 The necessary equipment for this system arrived [REDACTED] and the installation was completed. Substantial equipment troubles were encountered which have all been worked out. The system is now operative and testing over the [REDACTED] path has been scheduled to start on 6 October 1958.</p> <p>25X1 Since the troubles encountered in the installation of equipments were considerable a separate report will be compiled on the installation. In general, installation and equipment troubles were encountered in the 6 gang T.D. TTY, C58B-56-1A and 231-D Transmitter equipments.</p>			

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E	BUDGET EST. FY 58 AMOUNT \$10,000	REPORTING PERIOD 1 - 30 September 1958	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5106	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Mechanical Transmitter Interlock Switches			
PROJECT REQUIREMENT To increase the safety features of the 16-F and 231-D type transmitters by providing a mechanically actuated switch that will ground the high voltage when the doors of these transmitters are opened.			
PROJECT DESCRIPTION Determine the type and quantity of switches for each type of transmitter. Have an outside consulting firm investigate the circuitry and construction of the 16-F and 231-D type transmitters for the best possible arrangement of wiring and placement of the switches. This firm will also purchase the switches and other hardware to make an amount of kits, complete with installations instructions. Secure authorization to make installation of these switches mandatory.			
APPROVAL DATE August 1957	APPROVED AJW /s/ JJK /s/	STARTING DATE August 1957	COMPLETION DATE

During this reporting period, the Avion Company has completed fabrication of the modification kits. The first 50 units, 25 ea. 16-F and 25 ea. 231-D, were shipped on 12 September after an inspection of the completed packages by the project engineer on the two previous days. This inspection indicated that the micro switches on the rear of some of the units was not properly adjusted. This difficulty was corrected at the Avion plant before shipment, and an inspection of 23 September at the [REDACTED] as a double check revealed that the misalignment has been corrected.

Avion will ship the additional 138 units, 99 ea. 231-D and 39 ea. 16-F, in two shipments on 1 October and 8 October.

The paper work has been initiated to send the proper number of each modification kit type to the field base stations as soon as all the kits reach the warehouse, and it is hoped that this project will be completed during the next reporting period.

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E		BUDGET EST. FY. 58 AMOUNT \$5,000	REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5105	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER 25X1
PROJECT TITLE HT-4 Exciter Modification			
PROJECT REQUIREMENT Some of the HT-4 transmitters do not have sufficient output from the exciter between 18 and 30 megacycles to drive the power amplifier to full output.			
PROJECT DESCRIPTION The exciter circuitry will be investigated to find methods of increasing its output in the 18 to 30 megacycle range. Any changes necessary will be kept as simple as possible. An outside consulting firm may be called in on this problem if additional help is needed. When the exciter drive is increased to the proper level, modification kits will be made up to be used in conjunction with Modification Work Order #7 (Revised).			
APPROVAL DATE August 1957	APPROVED AJW JJK	STARTING DATE August 1957	COMPLETION DATE
The check of the modified tuning units on several transmitters as mentioned in the preceeding monthly report has not as yet been conducted due to the work of the project engineer on higher priority projects.			

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ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 30 September 1958	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5120	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Review of Present Converter Field			
PROJECT REQUIREMENT Review what is currently on the market to determine if there is an economically suitable replacement for the Northern 107 Model 2 Frequency Shift Converter.			
PROJECT DESCRIPTION Prepare a comparison chart of all Frequency Shift Converters currently being produced, such as the Hoffman CV-60, TMC CFA, Collins 706A-2, Northern 107 and 174, etc., to determine which is the most suitable unit to meet our requirements.			
APPROVAL DATE January 1958	APPROVE [REDACTED]	TARTING DATE February 1958	COMPLETION DATE
<p>Delivery of the government furnished equipment requested by the contractor has been delayed due to the unavailability of two Model XFK's.</p> <p>Several Model XFK's are on order and arrangements have been made for expedited delivery of two units. They are due in during the second week of October 1958.</p>			

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ORIGINATOR(S) OC-E		BUDGET EST. FY. 58 AMOUNT		REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED	<input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5122	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED] 25X1	
PROJECT TITLE Evaluation of Diversity Reception Systems				
PROJECT REQUIREMENT To determine the advantages or disadvantages of space/frequency diversity reception systems for possible Agency application.				
PROJECT DESCRIPTION A study will be made of available commercial and military diversity reception systems. A report will be prepared listing the capabilities of each system compared to conventional receiving systems. The following points will be considered. <ol style="list-style-type: none"> 1. Economy 2. Flexibility 3. Ease of operation and maintenance 4. Antenna space requirement 5. Agency requirement 				
APPROVAL DATE April 1958	APPROVED [REDACTED]	STARTING DATE April 1958	COMPLETION DATE [REDACTED] 25X1	
<p>On 22 September this project was again taken over by [REDACTED]</p> <p>A study of the DDR-2 has been initiated to determine what modifications will be required to increase its operating efficiency. A DDR-2 unit has been requisitioned for use in these tests. Also, it was requested that Modification Work Order #22 (Installation of Ventilating Fan) be completed by the T&I Section before shipment.</p>				

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ORIGINATOR(S) OC-O+T		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1-30 September 1958
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED	<input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5123	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED] 25X1	
PROJECT TITLE Antenna Systems for [REDACTED] Communications Nets. 25X1				
PROJECT REQUIREMENT To provide an antenna system, with the receiving antenna(s) being capable of joint use by other offices, for communications nets installed in [REDACTED] buildings. The antenna installation should perform efficiently and yet not detract from the esthetic appearance of the building. 25X1				
PROJECT DESCRIPTION To investigate and test various types of multicouplers, vertical antennas with associated tuning networks, both remotely operated and passive, and to determine the type multicoupler and antennas best suited to meet the applicable requirements.				
APPROVAL DATE April 1958	APPROVED [REDACTED]	STARTING DATE April 1958	COMPLETION DATE [REDACTED] 25X1	

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ORIGINATOR(S) SPM 8-313		BUDGET EST. FY. 58 AMOUNT \$20,000	REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5124	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED]
PROJECT TITLE [REDACTED]			
PROJECT REQUIREMENT To provide engineering support [REDACTED]			
PROJECT DESCRIPTION <p>The first phase is to design the initial layout of antennas, R.F. and power wiring, service ducts, lighting and equipment. The second phase will be to provide engineering assistance for the installation of antennas and equipment.</p>			
APPROVAL DATE April 1958	APPROVED [REDACTED]	STARTING DATE April 1958	COMPLETION DATE
<p>During this reporting period [REDACTED], SEB/FES, visited the project site to assist [REDACTED] with details concerning the antenna installation and to assist station personnel with inside installations work. See attached trip report.</p>			

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ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED				
PROJECT NUMBER E-5125	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED] 25X1	
PROJECT TITLE Transmitter/Antenna Switching and Matching Systems				
PROJECT REQUIREMENT To investigate methods for the efficient transfer of R.F. energy from transmitters to antennas.				
PROJECT DESCRIPTION This study is to investigate the various methods of transmitter to antenna switching, associated patch panels, coaxial patch cords and connectors, dummy loads, standing wave ratio indicating devices, transmission lines, and matching methods and devices. The aim of this study is to provide a centralized fund of information on all phases of the transfer of R.F. energy from transmitter to antenna in order to facilitate engineering design.				
APPROVAL DATE April 1958	APPROVE [REDACTED]	STARTING DATE April 1958	COMPLETION DATE	
A request was received [REDACTED] for a coaxial transmitter/antenna switching patch panel. A patch panel utilizing TMC components is being designed with a capacity of switching up to twelve transmitters of the HT-4/GPT-750 type to eleven antennas and one dummy load. This design will also incorporate a standing wave ratio coupler and indicator units.				

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ORIGINATOR(S) OC-O+T		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED				
PROJECT NUMBER E-5128	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER <div style="border: 1px solid black; width: 150px; height: 20px;"></div> 25X1	
PROJECT TITLE Design of new signal center facility for OCI				
PROJECT REQUIREMENT To prepare drawings and specifications defining space requirements, room configuration, equipment layout, power requirements.				
PROJECT DESCRIPTION A requirement has materialized for the installation of additional teletype equipment in the OCI signal center which will be used as part of a broadcast facility serving various other government agencies and staffs. The existing signal center will be completely redesigned at the time the broadcast facility is installed. All installation work will be performed by IMB.				
APPROVAL DATE March 1958	APPROVE <div style="border: 1px solid black; width: 100px; height: 40px;"></div>	STARTING DATE March 1958	COMPLETION DATE	
During this reporting period, NSA personnel completed the installation of the KW-26 equipment. With the installations of this equipment the project is completed and will not be reported on further.				

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ORIGINATOR(S) OC-E		BUDGET EST. FY. 59 AMOUNT 20,000		REPORTING PERIOD 1 - 30 September 1958	
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<input type="checkbox"/> CANCELLED		<input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5131	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER		
PROJECT TITLE Modification of RS-1					
PROJECT REQUIREMENT Complaints were received from the field concerning failures of the power cables, crystal sockets, and waterproofing of the RS-1, reference ASCA 57-1738, WEMCA 57-1042.					
PROJECT DESCRIPTION The newly designed power cable will be life tested to assure that it will sustain the operational stresses. A new crystal socket, which has been previously life tested, will be installed. A new pliobond seal will be used to increase the effectiveness of the waterproofing. An RS-1 will be removed from stock and the new parts and seal will be used to modify it. This project will culminate in the issue of a modification work order to all concerned areas.					
APPROVAL DATE July 1958	APPROVED	STARTING DATE July 1958		COMPLETION DATE	
<p>During this reporting period, the formal report on the life test of the cable was received from R&D Laboratory. The cable was subjected to severe bending stresses at the point just above the feed-through where the original failures on the old cable had occurred. After approximately 2,200 bends, one of the wires in the cable ruptured, although the outside rubber covering was still in tact. The cause of the failure was attributed to a small strand of thread which holds all the wires together just above the feed-through. The cable is considered a satisfactory replacement due to the great number of bends required before rupture. However, to insure even greater reliability, the project engineer plans to confer with NEMS-Clarke, the manufacturer of the cable, before any additional cables are produced to investigate the possibility of removing the binding thread.</p> <p>NEMS-Clarke is about to begin fabrication of 5 ea. modification kits for the RS-1, including new power cables for the RR-2B and RT-3, new crystal socket for the RT-3, and new waterproofing compound. Modifications of 5 ea. RS-1 units will begin immediately upon the completion of the modification kits, with exact techniques and degree of difficulty being especially noted.</p>					

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<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5133	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED]
PROJECT TITLE AS-4 Installation			
PROJECT REQUIREMENT To perform the necessary design work to incorporate the AS-4 High Speed Communications Equipment into existing KUCLUB facilities.			
PROJECT DESCRIPTION Systems design will include antenna utilization, power required, minimum space requirements, and preparing associated bills of materials and installation drawings to incorporate the AS-4 equipment into existing base stations.			
APPROVAL DATE May 1958	APPROVE [REDACTED]	STARTING DATE May 1958	COMPLETION DATE
<p>Information received from EUCA revealed that the two rhombic receiving antennas were installed. A dispatch was forwarded to EUCA for the design of the transmitting rhombic antenna.</p> <p>A study is being conducted to determine whether a 40 kw amplifier as compared to a 10 kw transmitter will offer a marked increase in circuit reliability over the various paths involved.</p>			

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ORIGINATOR(S) OC-O&T 58-766		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 30 September 1958
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED	<input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5135	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER 25X1	
PROJECT TITLE Modernization of CP-4 Control Panel				
PROJECT REQUIREMENT Redesign the CP-4 Control Panel and fabricate 100 units.				
PROJECT DESCRIPTION Redesign the CP-4 control panel as a more efficient unit and rebuild from the start, using miniaturization techniques wherever possible and practical, incorporating features in the equipment from experience gained from previous models of the control panel.				
APPROVAL DATE July 1958	APPROV 25X1	STARTING DATE July 1958	COMPLETION DATE	
<p>Two suggestions have been received and are being considered for incorporation in this modernization program. They are:</p> <ol style="list-style-type: none"> 1) A voltage regulated B-plus power supply. 2) When an operator uses a receiver for monitoring his own transmitter signal, both the monitor receiver noise level and the incoming signal are heard simultaneously unless the monitor receiver volume is manually reduced. a relay circuit can be designed so that the monitor receiver audio output is OFF when a signal is being received (key up) and ON when a signal is being transmitted (key down). <p>Both of these suggestions are being considered for the modernization of the unit.</p>				

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<input type="checkbox"/> FUTURE		<input checked="" type="checkbox"/> ACTIVE		<input type="checkbox"/> COMPLETED	
<input type="checkbox"/> CANCELLED		<input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5136		PRIORITY CLASS I		PRIM. RSPN. EES	
PROJECT TITLE Maximum Cryptographic Part Alarm (MACPAL)					
PROJECT REQUIREMENT Provide an alarm for the TSEC/KL-7 which will notify the operator when a pre-determined number of groups have been typed.					
PROJECT DESCRIPTION The MACPAL should be an incandescent lamp which will light at 90 groups or 335 groups and which will continue to burn until the counter is re-set.					
APPROVAL DATE July 1958		APPROVE 		STARTING DATE July 1958	
COMPLETION DATE					

Brochures were received from several manufactures of counting equipment. None of the counters described are readily adaptable to our requirements.

The Veeder-Root representative is checking to determine whether or not a small counter can be modified to meet our requirements. He is quite sure that he can provide a counter that will prove satisfactory. The Veeder-Root representative was sent a Security Questionnaire 29 August 1958 and will be processed as quickly as possible so that we can have direct contact with him.

At present, the TSEC/KL-7 is being appraised in order to determine the most practical and reliable method of connecting the counter and alarm; mechanical vs. electrical counter, external vs. internal mounting, etc. The final decision, of course, will depend upon the type and size of the counter selected. Since the selection appears to be limited the project will be somewhat statis until a security clearance action is completed on the Veeder-Root representative. At that time more detailed information on our requirements will be presented to him.

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PROJECT NUMBER E-5137	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED] 25X1	
PROJECT TITLE Coaxial Output Network for the 231-D Transmitter				
PROJECT REQUIREMENT A coaxial output network, independent of the existing unbalanced output is required for the 231-D Transmitter.				
PROJECT DESCRIPTION The output circuit of the 231-D Transmitter will be investigated and a suitable network, with provisions for metering, will be designed and fabricated to accommodate coaxial fittings. The existing outputs (i.e., unbalanced and balanced 600 ohm line feed) of this transmitter will not be affected. A modification kit with instructions will be drawn up.				
APPROVAL DATE July 1958	APPROVED [REDACTED]	STARTING DATE July 1958	COMPLETION DATE	
<p>Arrangements were made to inspect an output deck of the 231-D transmitter. At the time of inspection an exact working drawing will be made up, which will allow the physical dimensions of the modification to be determined. This work should be completed during the next reporting period.</p>				

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ORIGINATOR(S) CSD 8-517		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 30 September 1958	
<input type="checkbox"/> FUTURE		<input checked="" type="checkbox"/> ACTIVE		<input type="checkbox"/> COMPLETED	
<input type="checkbox"/> CANCELLED		<input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5138		PRIORITY CLASS I		PRIM. RSPN. EES	
PROJECT TITLE		PROJECT ENGINEER			
Teletype Clear Text Alarm					
PROJECT REQUIREMENT A device is required which will detect the clear text word "CITE" when transmitted to a signal line. Upon detecting this word the device will provide a disabling circuit for the transmitter-distributor and an audible and/or visual alarm shall be given.					
PROJECT DESCRIPTION					
<p>All signal lines are monitored by model-14 reperforators. Contact assemblies are available that are operated by the pull bars on the M-14. These contacts can be added so that they are operated by the space, C, I, T, and E pull bars. These contacts can be used to control the Clear Text Alarm device. The Clear Text Alarm device will be either relay or diode operated and contain its own power supply.</p>					
APPROVAL DATE		APPROVED		STARTING DATE	
August 1958				August 1958	
				COMPLETION DATE	

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An all electronic system was designed using IN645 diodes which will provide a much smaller package and utilize a simpler power supply than a relay operated circuit.

The tentative circuit makes use of RC charging and discharging circuits which will transfer a positive pulse to the grid of a trigger tube only if the sequence space, C, I, T, E is typed into the unit. Any other sequence of characters will not transfer the pulse.

The necessary parts for an experimental electronic unit have been requisitioned.


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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1958 1 September - 30 September
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5140	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED]
PROJECT TITLE 231-D Pre-Emphasis and Speech Clipping Modification			
PROJECT REQUIREMENT To increase the average percentage of modulation of the 231-D transmitter by providing pre-emphasis and speech clipping circuits which will yield a waveform with a higher average power to peak amplitude ratio.			
PROJECT DESCRIPTION Pre-emphasis and speech clipping equipment (1 ea.) will be obtained from the Maxson Instrument Co. and Gates Radio Co. respectively. One 231-D low power audio stage modification kit will be obtained from Jankay & Bailey, Inc. The entire assembly will then be installed and tested on a 231-D transmitter [REDACTED] If test results are favorable, additional assemblies will be purchased and sent to the field wherever deemed necessary.			
APPROVAL DATE AUGUST 1958	APPROVED [REDACTED]	STARTING DATE AUGUST 1958	COMPLETION DATE
Arrangements are now being completed to visit the Maxson Instrument Co., Long Island City, N. Y. in order to ascertain their capability to produce speech clippers. A Langevin speech clipper has been located at the Kahn Research Lab. This clipper is the property of the VOA, and the possibility of borrowing this clipper for tests purposes will be investigated if the Maxson Instrument Co. is unable to supply one unit for immediate testing.			

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) SA/CO		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 September 1958 - 30 September
<input type="checkbox"/> FUTURE <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5142	PRIORITY CLASS	PRIM. RSPN. FES	PROJECT ENGINEER
PROJECT TITLE			
PROJECT REQUIREMENT To provide SA/CO with a list of all items necessary for complete 1 and 10 kilowatt medium and high frequency broadcast stations. The list is to include costs, weights, and cubes.			
PROJECT DESCRIPTION Compile above data.			
APPROVAL DATE 16 September 1958	APPROVED 	STARTING DATE 4 September 1958	COMPLETION DATE 10 September 1958
Data sufficient for budgetary discussions was presented to SA/CO 10 September 1958. This project is considered completed.			

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-O+T	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 30 September 1956	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5412	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER <div></div>
PROJECT TITLE One Man Radio Station			
PROJECT REQUIREMENT Design a complete one man radio station to be used as a standard for the planning of all new one man stations or when renovating existing stations.			
PROJECT DESCRIPTION <p>This project was originally started in September 1956 to prepare a bill of materials and associated drawings to cover the installation of a one man radio station <div></div> It has been expanded to cover the installation and renovation of all one man stations. Using the one man station design as a guide, a complete bill of materials, associated drawings and installation specifications will be prepared according to the requirements of each particular station.</p>			
APPROVAL DATE September 1956	APPROVED <u>AJW /s/</u> <u>JJK /s/</u>	STARTING DATE September 1956	COMPLETION DATE
On 22 September, this project was taken over by <div></div> SEB/EES.			
<div></div>			
Procurement of the prototype position is being held up pending clearance of key AMCA personnel.			
Wiring diagrams with all requested modifications are now in the process of being completed.			

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